



**ABAG, BAAQMD, MTC
Joint Policy Committee Meeting
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Bay Area 2005 Ozone Strategy

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Bay Area 2005 Ozone Strategy

Overview

- Prepared by Air District, MTC and ABAG
- Addresses State 1-hour ozone planning requirements
 - ◆ All feasible control measures
 - ◆ Attainment in Bay Area
 - ◆ Reduce transport to neighboring regions
- Does not address national ozone planning requirements – 8-hour requirements still uncertain
- Extensive public involvement
 - ◆ Ozone Working Group
 - ◆ Community meetings
 - ◆ Consultation with neighboring districts and ARB

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Background

- Adverse health effects
 - ◆ Irritates respiratory system/shortness of breath
 - ◆ Aggravates asthma, bronchitis, emphysema
 - ◆ Long-term exposure damages lung tissue
 - ◆ Children, seniors are most at risk
- Not emitted directly from tailpipes and smokestacks
- Formed by photochemical reactions between hydrocarbons and nitrogen oxides – regional pollutant
- Sources of hydrocarbons – on-road and off-road motor vehicles, evaporation of fuels and solvents
- Sources of nitrogen oxides – on-road and off-road vehicles, power plants, industrial combustion
- Trends – ozone levels way down, but still sometimes violate State standard

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Contents of Bay Area Ozone Strategy

- Ozone background
- Emission inventory
- Ozone trends
- Progress on implementing prior control measures
- Control strategy
 - ◆ Stationary source measures
 - ◆ Mobile source measures
 - ◆ Transportation control measures
- Further study measures
- Other issues – public involvement, climate change, PM, CARE, local benefits, national ozone standard, modeling, environmental review

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Stationary Source Measures

- Industrial/Commercial Processes
 - ◆ Auto Refinishing
 - ◆ Graphic Arts Operations
 - ◆ High Emitting Spray Booths
 - ◆ Polyester Resin Operations
 - ◆ Wood Products Coating
- Combustion Processes
 - ◆ Boilers Less Than 10 MMBTU/Hr
 - ◆ Large Water Heaters/Small Boilers
 - ◆ Stationary Gas Turbines
- Petroleum Products Production and Distribution
 - ◆ Refinery Flares
 - ◆ Gasoline Bulk Terminals and Plants
 - ◆ Marine Loading Operations
 - ◆ Organic Liquid Storage Tanks
 - ◆ Pressure Relief Devices
 - ◆ Wastewater Systems
- Energy Conservation

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Mobile Source Measures

- Diesel Equipment Idling Model Ordinance
- Green Contracting Model Ordinance
- Low Emission Vehicle Incentives
- Vehicle Buy Back Program

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Transportation Control Measures

- Voluntary employer based trip reduction programs
- Local and areawide bus service
- Regional Rail Service
- Interregional rail service
- Access to rail and ferries
- Ferry service
- Carpool/express bus lanes on freeways
- Bicycle access and facilities
- Youth transportation (includes clean fuel school buses)
- Freeway traffic management
- Arterial Management
- Transit use incentives
- Carpool/vanpool services
- Local land use planning and development strategies
- Public education/intermittent controls
- Demonstration projects (includes clean air vehicles)
- Transportation pricing reform
- Pedestrian access and facilities
- Traffic calming

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Further Study Measures – Stationary Sources

- Industrial/Commercial Processes
 - ◆ Adhesives and sealants
 - ◆ Architectural coatings
 - ◆ Commercial charbroilers
 - ◆ Composting operations
 - ◆ Food product manufacture
 - ◆ Livestock waste
 - ◆ Solvent limitations based on relative reactivity
 - ◆ Solvent cleaning and degreasing
- Petroleum Products Production and Distribution
 - ◆ Emissions from cooling towers
 - ◆ Refinery wastewater treatment systems
 - ◆ Vacuum trucks
 - ◆ Valves and flanges
 - ◆ Wastewater from coke cutting
- Combustion Processes
 - ◆ NO_x reductions from refinery boilers
 - ◆ Stationary IC engines

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Further Study Measures – Mobile and Transportation Sources

- Mobile sources
 - ◆ Encourage alternative diesel fuels
 - ◆ Mitigation fee for federal sources
- Transportation sources
 - ◆ Indirect source mitigation program
 - ◆ Free transit on Spare the Air days
- Episodic measures

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ABAG and MTC Involvement

- ABAG *Projections 2003* are basis for motor vehicle emissions estimates
- Collaboration on with MTC and ABAG on control measure evaluation and development, especially TCMs
- Public outreach

JPC Involvement

- Air District presentation on draft control strategy to JPC March 25, 2005

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Linkages to JPC Themes

- Smart growth
 - ◆ TCM 15 – Local Land Use Programs
 - Encourage infill, TOD, mixed use
 - Incentives (TLC/HIP, T-Plus, TFCA)
 - ◆ Other TCMs – transit access, cycling, walking, traffic calming
- Climate protection/energy efficiency
 - ◆ SS 15 – Energy Conservation
 - ◆ Mobile Source Measures, TCMs
- Public health/land use
 - ◆ Grants for diesel clean-up
 - ◆ Stationary source measures, e.g., refinery flare control
 - ◆ TCMs – smart growth and trip reduction
 - ◆ Multiple benefits

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Public Review and Next Steps

- Draft Ozone Strategy released September 9
- Draft EIR released October 7
- Ozone Working Group meeting – October 25, Oakland
- Community meeting – October 26, Richmond
- Public comments on Ozone Strategy due November 9
- Public comments on DEIR due November 21
- Staff responding to public comments
- Expect Board of Directors hearing December 21

For more information, go to:

<http://www.baaqmd.gov/pln/plans/ozone/>

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Recommendation

Endorse Bay Area 2005 Ozone Strategy